Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

| | | | | | | | COMPLETE IF KNOWN | | | | |
|--|--------------|-------------|---|-------------------------|-------------------------------|------------------------------------|-------------------------------|--|--|---|---------------|
| Substitute for form 1449A/PTO | | | | | | | Application Number | | 09/849,505 | Dro. | ᅱ |
| P E INFORMATION DISCLOSURE | | | | | | | Confirmation Number | | 8691 | TECEIVE | |
| | | | | | | | Filing Date | | May 4, 2001 | MAD | |
| 1 1002 (use as many sheets as necessary) | | | | | | | First Named Inventor Gr | | Gregory J. Wi | Ison "AR 2 2 200 | $\overline{}$ |
| MAR | | | | | | Group Art Unit | | 2121 | | Technol | \Box |
| ١.٠٠ | | _0 <u>/</u> | <u>/</u> | | | | Examiner Name | | Unknown | Jnknown Thirtier S | |
| S Beet 40 Com | | | 1 of | | 1 | | Attorney Docket No. | | 2121 Technology Center 2 | | יטטי |
| U.S. PATENT DOCUMENTS | | | | | | | | | | | |
| *EXAMINI | . 1 | Cite No. | U.S. Patent Do | Kind Code (if known) | | Name of Patentee or of Cited Docum | | Date of Publication of Cited Document | | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| LL. | | AA | 4,648,944 | | Geor | ge et al. | | 03/10/87 | | | ٦ |
| | AB 4,902,398 | | | Hom | stad | | 02/20/90 | | | | |
| | | AC | 4,949,671 | | Davi | s et al. | | 08/21/90 | | | |
| | | AD | 4,988,533 | | Free | man et al. | | 01/29/91 | | REA | |
| | | AE | 5,135,636 | | Yee | et al. | | 08/04/92 | | A CELL | |
| | _ | AF | 5,138,973 | | Davi | s et al. | | 08/18/92 | | RECEIVE 1700 | |
| ļ | _ | AG | 5,684,713 | | Asad | la et al. | | 11/04/97 | | C 12002 | \preceq |
| | _ | AH | 5,754,842 | | | agawa | | 05/19/98 | | 1700 | _ |
| | | AI | 5,989,397 | | | e et al. | | 11/23/99 | | | _ |
| | \dashv | AJ | 5,999,886 | | | in et al. | | 12/07/99 | | | _ |
| | - | AK | 6,028,986 | | Song | <u></u> | | 02/22/00 | | | _ |
| | | AL | 6,151,532 | | <u> </u> | ne et al. | | 11/21/00 | | | 4 |
| | / | AM AN | 6,162,488 | | - | elber et al. | | 12/19/00 | | | \dashv |
| V _ | | AIN | 6,199,301 B1 | | Wallace FOREIGN PATENT DOCUME | | | 03/13/01 | | | |
| | | | | | | | 11 DOCUME | - | | Pages, Columns, Lines, Where | |
| *EXAMINER INITIALS* | | Cite No. | Foreign Patent Document Kind (Office Number (if kn | | Code of Cited | | intee or Applicant i Document | | Date of Publication of Cited Document | Relevant Passages or Relevant Figures Appear | Т |
| | _+ | | | | \pm | | | | | | |
| | | | | | 4 | | | | | | |
| | | | OTHE | R PRIO | R AR | T-NON PATE | NT LITERAT | URE | DOCUMENT | S | |
| *EXAMINER Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, initials No. No. journal, serial, symposium, catalog, etc.), date, page(s), volume0issue number(s), publisher, city and/or country where published | | | | | | | | | | item (book, magazine, | Т |
| RITTER et al., "Two- And Three- Dimensional Numberical Modeling of Copper | | | | | | | of Copper Elec | troplating For | П | | |
| Advanced ULSI Metallization", E-MRS Conference, Symposium M, Basic Models to | | | | | | | | to Enhance Reliability; | | | |
| Strasbourg (France), 1999 | | | | | | | | | | | |
| EXAMINER Rancis Catal | | | | | | | DATE CONSIDERED 8/23/04 | | | | |
| * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s). | | | | | | | | | | | |
| conformance and not considered. Include copy of this form with next communication to applicant(s). | | | | | | | | | | | |